

## CLAIMS

Sub  
A17

1. Apparatus for processing an encrypted data stream within a computer system adapted to receive the encrypted data stream from a data storage device, the apparatus comprising: a data output device coupled to said computer system and having a plurality of data output areas;

means for transferring said encrypted data stream from said data storage device to said data output device, said encrypted data stream being for output to one of said plurality of data output areas; and

decryption means associated with said data output device for receiving said encrypted data stream and for decrypting said encrypted data stream to produce a clear data stream for output to one of said plurality of data output areas, wherein said decryption means receives a decryption key from said computer system, said decryption key relating only to said encrypted data stream associated with said one of said plurality of data output areas.

2. Apparatus according to claim 1 wherein said decryption key is transmitted during an interval between transmission of successive images to said data output device and is protected by a suitable secure code.

UK9-99-005

1 3. Apparatus according to claim 1 wherein said decryption key is transmitted  
2 during an interval between transmission of successive lines of each  
3 image to said data output device and is protected by a suitable secure code.

1 4. Apparatus according to claim 1 wherein:  
2 data associated with the one of said plurality of data output areas is not  
3 output if the decryption key associated with the one of said plurality of data output  
4 areas is not received; and

5 data associated with others of said plurality of data output areas is output  
6 independent of the receipt or non-receipt of the decryption key associated with the  
one of said plurality of data output areas.

5. Apparatus according to claim 4 wherein said data output device is a  
computer display and said data output areas are windows displayed on the  
display.

6. Apparatus according to claim 4 wherein data associated with one of said  
others of said plurality of data output areas is an encrypted data stream having  
a decryption key that differs from the decryption key associated with the encrypted  
data associated with the one of said plurality of data output areas.

UK99-005

1 7. Apparatus according to claim 4 wherein data associated with others of said  
2 plurality of data output areas is an unencrypted data stream having no decryption  
3 key.

1 8. Apparatus according to claim 4 wherein said decryption key contains an  
2 indication of the number of data output areas associated with the data output  
3 device which output encrypted data.

1 9. Apparatus according to claim 4 wherein said decryption key contains an  
2 indication of the relative location of said data output area where said clear data  
stream is to be displayed.

10. Apparatus according to claim 4 wherein said decryption key contains an  
indication of the size of said data output area where said clear data stream is to  
be displayed.

11. Apparatus according to claim 4 wherein said data storage device is a DVD  
storage device.

1 12. Apparatus according to claim 11 wherein said encrypted data stream is a  
2 video data stream and said decryption means comprises an MPEG video decoder.

1 13. A method for processing an encrypted data stream within a computer  
2 system comprising the steps of:

3 receiving an encrypted data stream from a data storage device;

4 transferring said encrypted data stream from said data storage device to  
5 a data output device having a plurality of data output areas, said encrypted data  
6 stream being for output to one of said plurality of data output areas;

7 receiving a decryption key in said data output device, said decryption key  
8 relating only to said encrypted data stream associated with said one of said  
9 plurality of data output areas; and

10 decrypting, in said data output device, said encrypted data stream to  
11 produce a clear data stream for output to one of said plurality of data output  
12 areas.

13 14. A method according to claim 13 wherein said decryption key is received  
14 during an interval between transmission of successive images to said data output  
15 device and is protected by a suitable secure code.

1 15. A method according to claim 13 wherein said decryption key is received  
2 during an interval between transmission of successive lines of each image to said  
3 data output device and is protected by a suitable secure code.

UK9-99-005

1 16. A method according to claim 13 wherein:

2 data associated with the one of said plurality of data output areas is not  
3 output if the decryption key associated with the one of said plurality of data output  
4 areas is not received; and

5 data associated with others of said plurality of data output areas is output  
6 independent of the receipt or non-receipt of the decryption key associated with the  
7 one of said plurality of data output areas.

1 17. A method according to claim 16 wherein said data output device is a  
computer display and said data output areas are windows displayed on the  
display.

18. Apparatus according to claim 16 wherein data associated with one of said  
others of said plurality of data output areas is an encrypted data stream having  
a decryption key that differs from the decryption key associated with the encrypted  
data associated with the one of said plurality of data output areas.

19. A method according to claim 16 wherein data associated with others of said  
plurality of data output areas is an unencrypted data stream having no decryption  
key.

UK9-99-005

